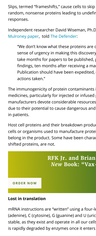
mRNA Vaccines May Produce Random, 'Nonsense' Proteins That Can Trigger Unintended Immune Response — Did Pfizer Know?

By Angelia DeFatima, Ph.D.


Pfizer Covid Vax Ad (2020)
Pfizer: Over the past 10 months, we've been working around the clock to develop a safe and effective vaccine for COVID-19. Now, we're ready to help end the pandemic.

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Developers of the Pfizer/BioNTech BNT162b2 gene therapy immunization product ("vaccine") overlooked or failed to anticipate a common mistake in the translation of synthetic messenger mRNA into proteins.

This mistranslation may cause the expression of potentially harmful protein products. As a result, some people who receive the shots develop immune responses to those protein products — and scientists don't know what, if any, long-term consequences may occur.

The paper reporting this effect appeared in Nature in December 2023, three years after the mRNA-based vaccine rollout began and the pandemic it addressed was declared over. Nature is a prestigious, peer-reviewed publication.

Researchers including first author Thomas McKinney, Ph.D., at Cambridge University's Department of Pharmacology, found that mRNA vaccines produce an abnormal immune response to mRNA and other mRNA-based gene therapy products, causes the unintended, frameshift mutation the gene to the spike protein to "slip" about 10% of the time.

Slips, termed "frameshifts," causes cells to stop translation and generate random, nonsense proteins leading to unintended, abnormal immune responses.

Independent researcher David Wiseman, Ph.D., who published a critique of the McKinney paper, told The Defender:

> "We don't know what these proteins are or their toxicities, yet there was no sense of urgency in making this discovery known. While peer review can take months for papers to be published, given the implications of these findings, ten months after receiving manuscript is an awfully long time. Publication should have been made immediately authorities notified and actions taken."

The immunogenicity of protein contaminants is a serious issue in biotech-made medicines, particularly for injected or inhaled products. For example, manufacturers closely monitor bacterial endotoxin because top cell proteins due to their potential to cause dangerous and unpredictable immune reactions in patients.

Host cell proteins and their breakdown products are impurities originating from cells or organisms used to manufacture biologic products, but they do not belong in the product. Some have been characterized but many, like frameshift proteins, are not.

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Lost in translation

mRNA instructions are "written" using a four-letter code comprised of A (adenine), C (cytosine), G (guanine) and U (uracil). We tend to think of genes as stable, as they exist and operate in all our cells throughout our lives, but mRNA is rapidly degraded by enzymes once it enters cells.

To prevent this degradation and to improve spike protein expression, vaccine developers replace uracil with N1Me2, an artificial mRNA building block that appears in the Pfizer/BioNTech and Moderna COVID-19 immunization products. This kind of substitution is not possible or relevant to DNA "vector"-based products, like Johnson and Johnson's or conventional antigen vaccines (Novavax).

Frame shifts produce new and in most cases previously unknown proteins, as illustrated by this example:

> The cat sat on the (normal message)
>
> Hec ats ato nth ecat (frame-shifted message leaving out the initial letter, "T")

The "frame-shifted" English language example is gibberish. However, in genetics, frame-shifted sequences may have meaning in their ability to generate a real protein capable of evoking an immune response.

Suppressing the N1Me2 replacement was responsible for frame-shifting, McKinney et al. used pseudouridine-based mRNA instructions for a test frame-shift protein and fed them to commercial laboratory cells. Along with the expected test protein, the cells produced other, unexpected proteins corresponding to a "frameshift," or loss of genetic information.

McKinney then vaccinated the genetically engineered mice with BNT162b2 COVID-19 vaccine, which elicited antibodies to CFDev2 — the frame-shift protein's pseudouridine, and a first with a spike protein vaccine. After eight days the mice received the vaccine receiving BNT162b2 recognized the frameshift protein, but mice who got the other treatments did not.

This means BNT162b-injected mice had seen the gibberish protein before, as a result of their vaccination.

McKinney then conducted this experiment, but instead of mice, he used immune system cells collected from 21 people who had taken the Pfizer vaccine and compared those cells to immune cells from 20 individuals who received the AstraZeneca vaccine (which does not use N1Me2).

Both groups showed immunity to the spike protein but not three of the Pfizer group also showed immune recognition of the frameshift protein.

This means the frame shift and production of frameshift proteins occurs in subjects receiving BNT162b, and that humans and mice both develop immunity to it.

Researchers are designing a novel mRNA sequence to reduce frame-shifting. He found frame-shifting and off-target effects could be minimized with the effect on production of the intended protein.

McKinney et al. noted that while frame-shifted proteins in humans could not be linked to adverse events based on his findings — likely because none of the subjects were experiencing them — future mRNA developers should pay attention to possible frame-shifting, particularly for products requiring high or frequent dosing.

They wrote that knowing which regions within the mRNA instructions are susceptible to frameshifts enables the design of safer, more effective mRNA products.

Suspecting that these regions involved N6Mp3, McKinney et al. created HBP2-based mRNA instructions for a test protein and fed the gene to commercial laboratory cells. Along with the test protein he found several other proteins corresponding to a "frame shift," or loss of one instruction.

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Wiseman's take: a high-quality study revealing development flaws

McKinney's was a high-quality study, Wiseman said. "The authors are affiliated with the U.K.'s Medical Research Council's toxicology unit and the National Institute for Health Research, equivalent to the U.S. National Institutes of Health. That such high-quality work spent so long — ten months — in editing suggests that its messaging was heavily worked on."

Nature received the paper on Jan. 25, accepted it for publication on Oct. 31, and published it on Nov. 29. Wiseman described this timeline as "protracted" given the appearance of off-target proteins that he considers reportable deviations from the expected product.

Also, Nature usually appends a peer-review file to its articles but none appended with the McKinney study on its initial publication, although they are there now.

"I think they had more data that they didn't disclose," Wiseman said. "For example, there was no mention of levels of antibodies to these off-target proteins. I wonder the authors of an immunology study didn't think of measuring antibodies? Surely that would be really weird because discussions in FDA meetings on the C19 vaccines focused on B cell/ Antibody responses."

Wiseman also revealed the failure of Pfizer and regulators to view gibberish proteins as undesirable side products.

Impurities in pharmaceutical products are inevitable because chemical and biochemical manufacturing processes always generate side products. Manufacturers control for possible ill effects by identifying, quantifying and characterizing them according to regulatory guidelines.

Process development scientists spend most of their time tweaking recipes to improve yields and eliminate or reduce impurities, but that is not possible with mRNA products because the "manufacturing plant" is not a brick-and-mortar factory but human cells.

"mRNA vaccines essentially outsource manufacturing to your cells," Wiseman said. "Sometimes it goes according to plan but other times it doesn't."

One McKinney coauthor, Dr. James Thaventhiran, an immunologist with the MRC Toxicology Unit at the University of Cambridge, acknowledged in a Cambridge University press release that misinterpreted antibodies against impurities "has huge potential to be harmful."

However, McKinney et al. concluded there is no evidence that frameshifted products in humans generated from BNT162b2 vaccination are associated with adverse outcomes.

"This claim is unsubstantiated and disingenuous," Wiseman said, given that McKinney was not a controlled trial and the number of vaccinated subjects in which the samples was small. "And since no subjects reported vaccine-related side effects their sample is subject to selection bias. A more comprehensive series of studies needs to be done to characterize the toxicological effects of these proteins."

The failure to recognize the significance of protein contaminants also bucks World Health Organization (WHO) mRNA vaccine guidelines, which require manufacturers to provide details on "unexpected ORFs" or "open reading frames" that can be translated products or frameshifted mRNA impurities.

According to the WHO, "The complete annotated sequence identifying all ORFs (including any unexpected ORFs) and all other sequence elements (including those that could be subject to frameshifting) is required."

Since McKinney's was the first paper to address frameshifted "ORFs" — and there are years after BNT162b2's debut — Wiseman said he suspects the FDA did not ask for it.

"The toxicology of these unintended proteins must be studied," Wiseman said. "The developers should have isolated them, sequenced them, and tested any important ones between frame-shifted proteins and naturally-occurring peptides and proteins."

Pfizer executive: We flew the plane 'while we were still building it'

Wiseman told The Defender that the McKinney study revealed a failure by Pfizer's development team and regulators to ask fundamental questions regarding the safety and effectiveness of BNT162b2.

Wiseman said no statement illustrates this more than a comment by the retired head of Pfizer's vaccine research and development unit, Kathrin Jansen, to Nature Drug Discovery. "We got creative — we couldn't wait for data, we had to do so much at risk. We flew the aeroplane while we were still building it."

Wiseman added:

> "If McKinney's team could predict the existence of frameshifted proteins, why were Pfizer's scientists unable to do so? The same question may be asked of regulators, especially in light of unresolved discrepancies and the specific allegation imposed by the European Medical Agency on BioNTech regarding the identities of the proteins elicited by the vaccine.
>
> "We must assume UK regulators, manufacturers, and international regulators, including FDA, knew of these issues many months ago. We await their investigation on the toxicity of off-target proteins, why they were not discovered or reported sooner, what steps FDA has taken to prevent future harms, and whether they plan to inform the public of these findings."

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Ricky Rivarola
2 days ago
I formulated "Cimbrevida"? Forgive me if I call those really naive and ignorant questions. Of course these Luciferians knew exactly the consequences of those BIOWEAPONS. Vaccine as inconvenient (subpoplation) truth for you all. If you took the mRNA injection and it was anything other than a placebo - you are now a Genetically Modified Organism (GMO) and you have been successfully culled from the human herd. Your DNA is now altered and will be passed on to subsequent generations. Your children and grandchildren are even though the average healthy person was never even sick at all - and that includes me!
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Suzanne Renard
Ricky Rivarola
2 days ago
Thank you for recognizing for those of us who unfollowed the onslaught of pressure and misinformation to call about having the mark made the right choice. What I am experiencing now, after 14 years of doing everything I could to sound the alarm on the guaranteed harms delivered by these symptoms, is not a feeling of superiority at being right. It's a feeling of grief.
What I feel is a sinking grief at watching so many people, from along with me, who do not know, but love as my own human kindred. Some are even former colleagues at an experiment vehicle in their families. Some, in their own forms of grappling, are trying to warn others. Some are in the process of losing their children to their terrible suffering from seizures, sudden coma's, neurological, cardiac and other issues that the vaccine-addicted establishment cannot care less about. It is painful to see is the dawning of the reality of what has happened to those coming to the realization of what they've done.
True: a steady flow of scientific studies confirms the likelihood of genetic damage from these shots. But we (Muslims) were most common the love and courage to tell the hurting parents that will help our little human human beings who are now suffering.
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Vlad Ragad
Ricky Rivarola
2 days ago
I have lost count how many terrible discoveries about these mRNA shots have been announced by researchers.
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Elizabeth
2 days ago
Prove the article, and worth reporting.
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Lisa
2 days ago
God's creation is so subtly complex that no human being no matter how intelligent, can understand it. And yet they think they can improve on it.
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Bill in MT
2 days ago
What has the public now learned from all of this? I have personally learned never to trust the establishment and government again.
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Unvaccinatus
2 days ago
This is just a bullshit distraction from the reality that the PLANDEMIA is toast. The balls and the pay pause most of the issues.
But this DNA method stuff is really unproven pseudoscience mythology.
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Mary
2 days ago
Wiseman proteins leading to undefined, unintended immune responses." Frameshift mutations are caused by insertion or deletion of a base pair. They result in proteins that can be significantly different from the normal protein and may even turn off gene all of them. Other mutated proteins could be produced and may cause severe problems.
It is not a good idea to refer to these mutated proteins as nonsense proteins. Nonsense mutations, or stop mutations, lead to nonsense proteins. These proteins are truncated and nonfunctional. Are these frameshift mutations producing nonsense/nonfunctional proteins? Or are they producing proteins that are functional but different?
The amount of damage these "vaccines" have caused is devastating. And, as time goes by there will probably be more problems linked to the experimental "vaccine".
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Dr. Ian Rockwell MD PhD DDS
2 days ago
Thanks. We'll wait to see what the study group has to say about the terminology.
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